

Clade	Relative Position	Frequency
1	12860	2
2	12405	2
3	12309	1
4	12025	2
5	11737	3
6	11560	1
7	11473	1
8	11267	8
9	11170	5
10	11000	2
11	10639	2
12	9732	1
13	8801	1
14	8179	1
15	7886	1
16	7883	1
17	6931	1
18	6826	1
19	6512	1
20	6490	1
21	6191	1
22	6149	1
23	5857	1
24	5849	1
25	5785	1
26	5763	1
27	5541	1
28	5241	1
29	4404	1
30	4298	1
31	4254	1
32	4106	1
33	4065	1
34	3824	1
35	3557	1
36	3008	1
37	1928	1
38	1868	1
39	1828	1
40	1824	1
41	1688	1
42	1272	1
43	1266	1
44	782	1
45	457	1
46	-743	1
47	-916	1
48	-1168	1
A	1	2
B	2	2
C	3	1
D	4	2
E	5	3
F	6	1
	7	1
	8	1
	9	8
	10	5
	11	2
	12	2
	13	2
	14	1
	15	1
	16	1
	17	1
	18	2
	19	1
	20	1
	21	6
	22	1

FIGURE 1

BEST AVAILABLE COPY

2/18

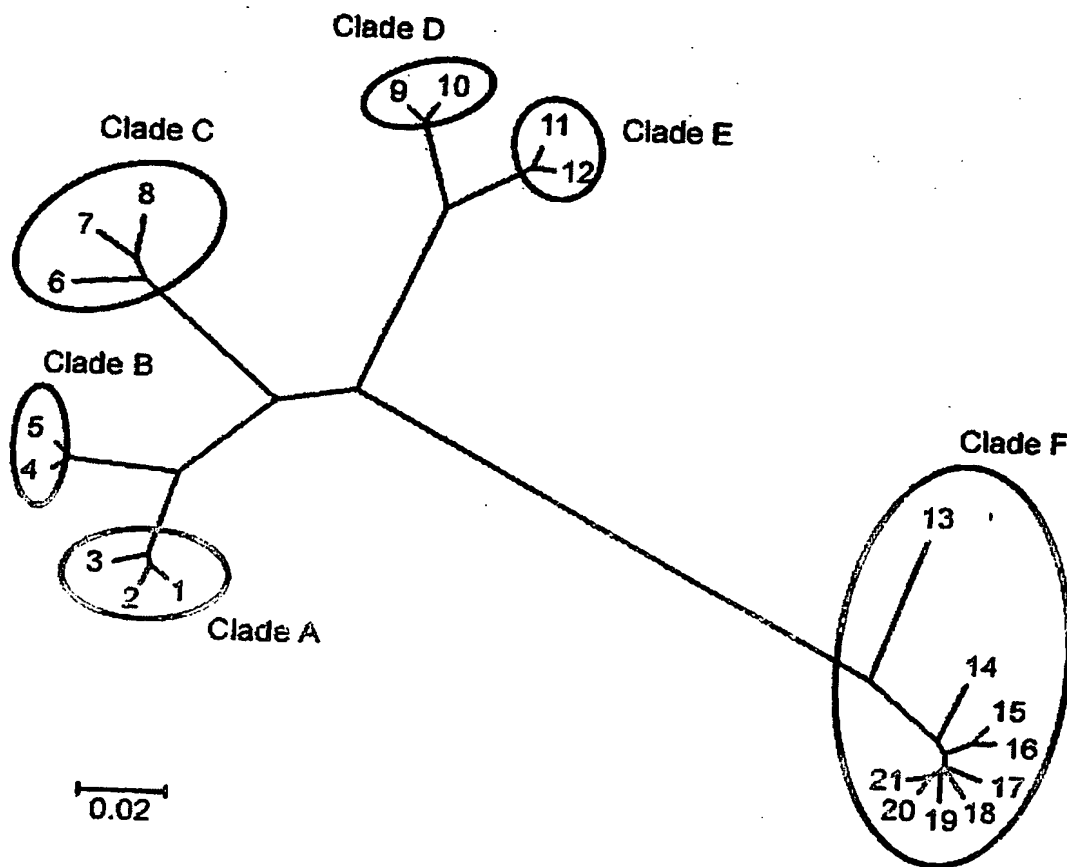
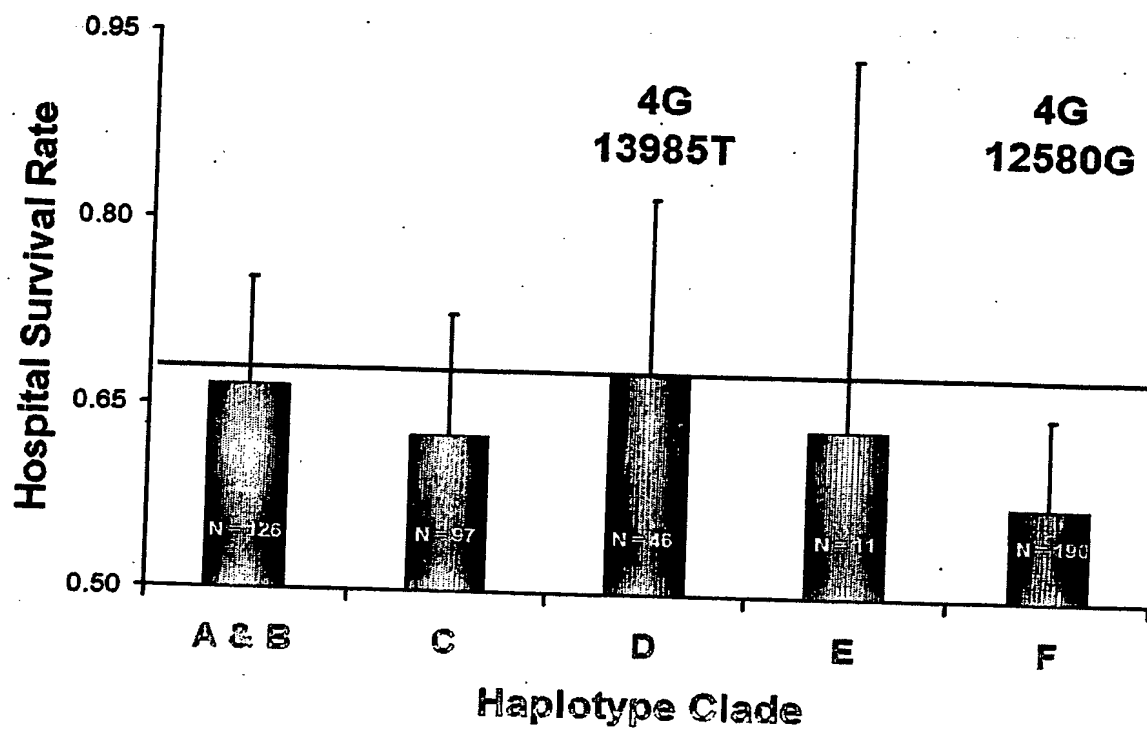


FIGURE 2

3/18

10/549804

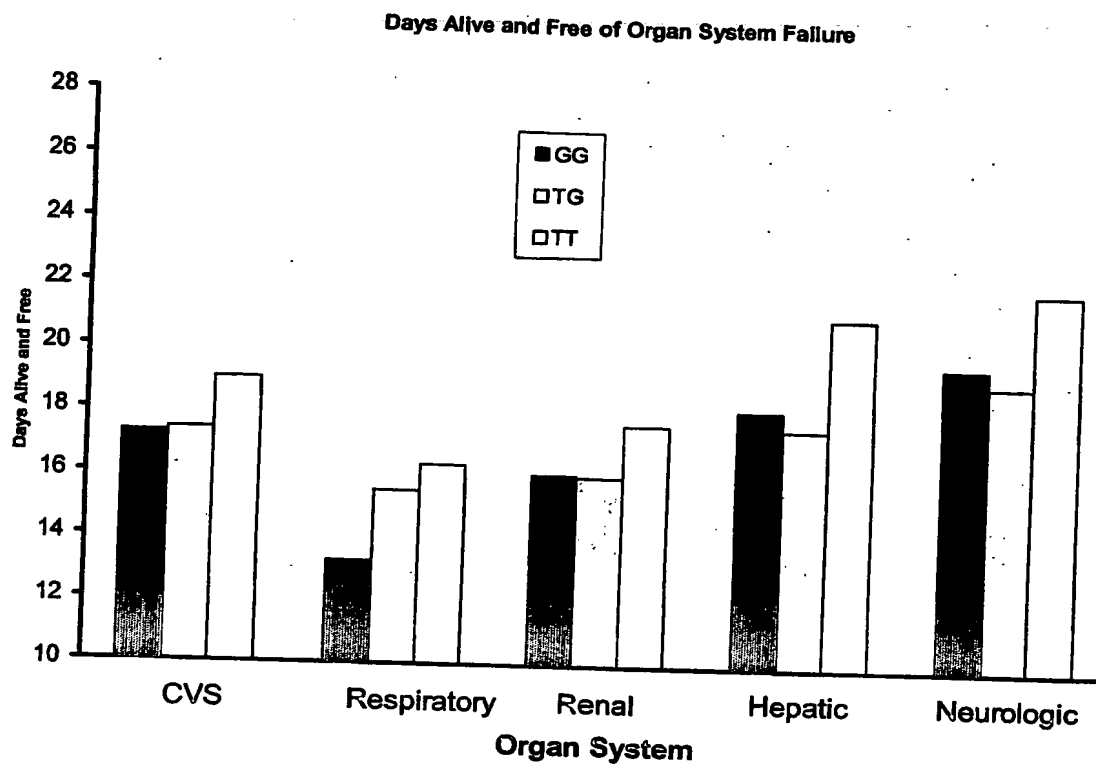
FIGURE 3



10/549804

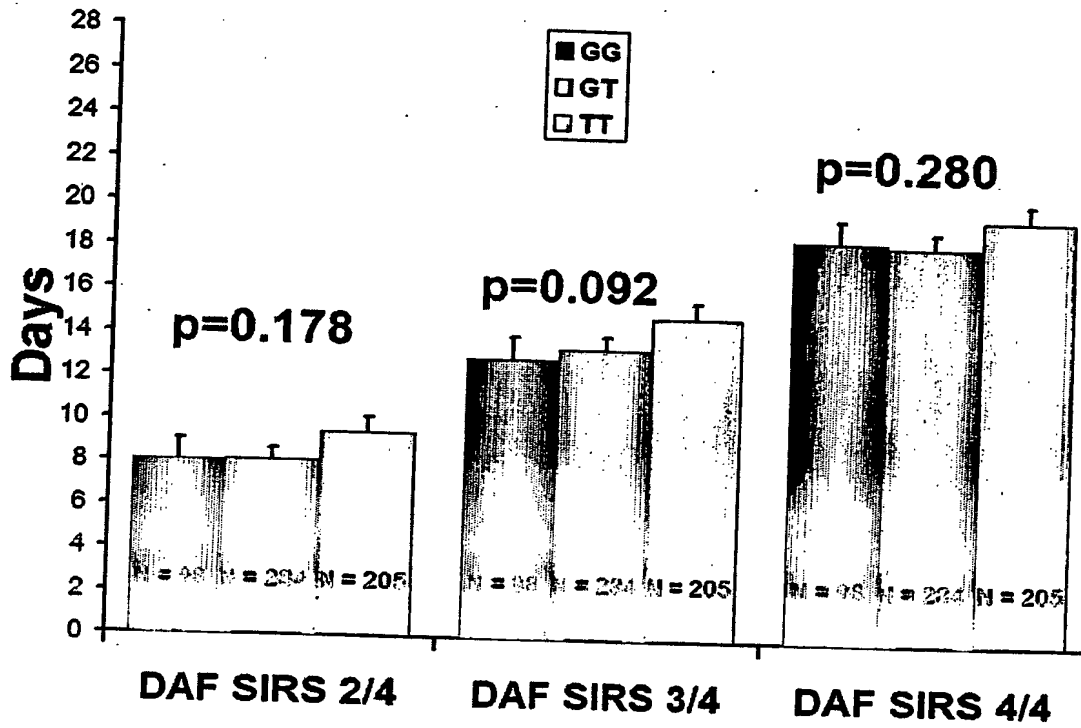
4/18

FIGURE 4



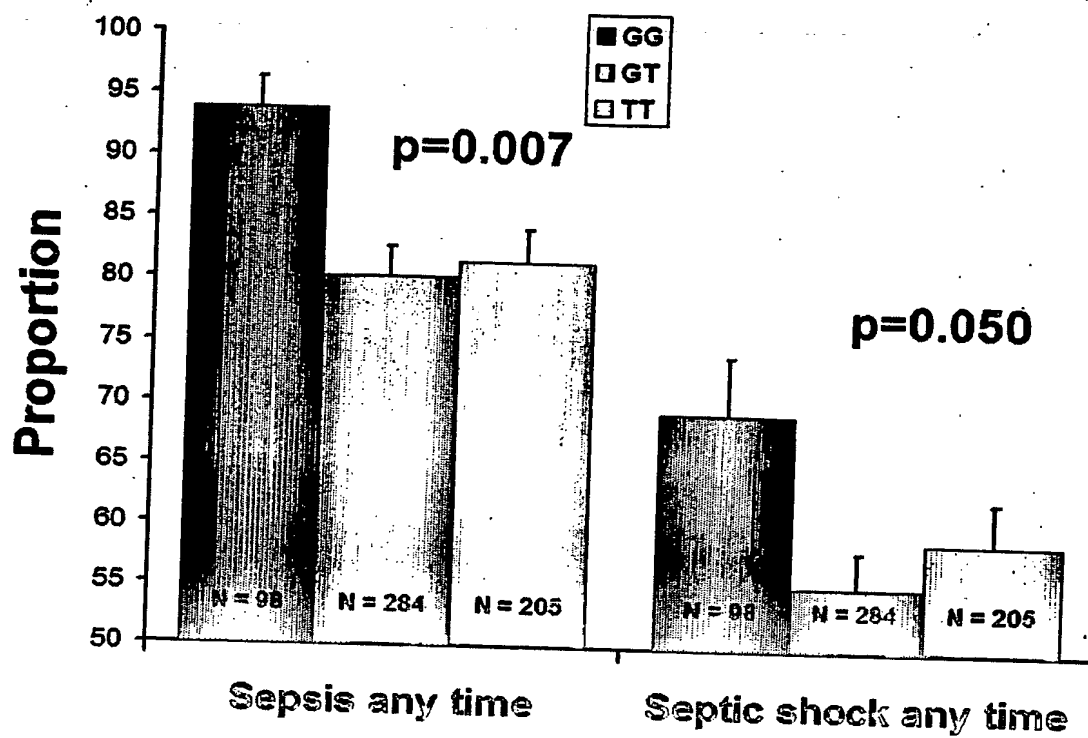
5/18

FIGURE 5



6/18

FIGURE 6



7/18

FIGURE 7A

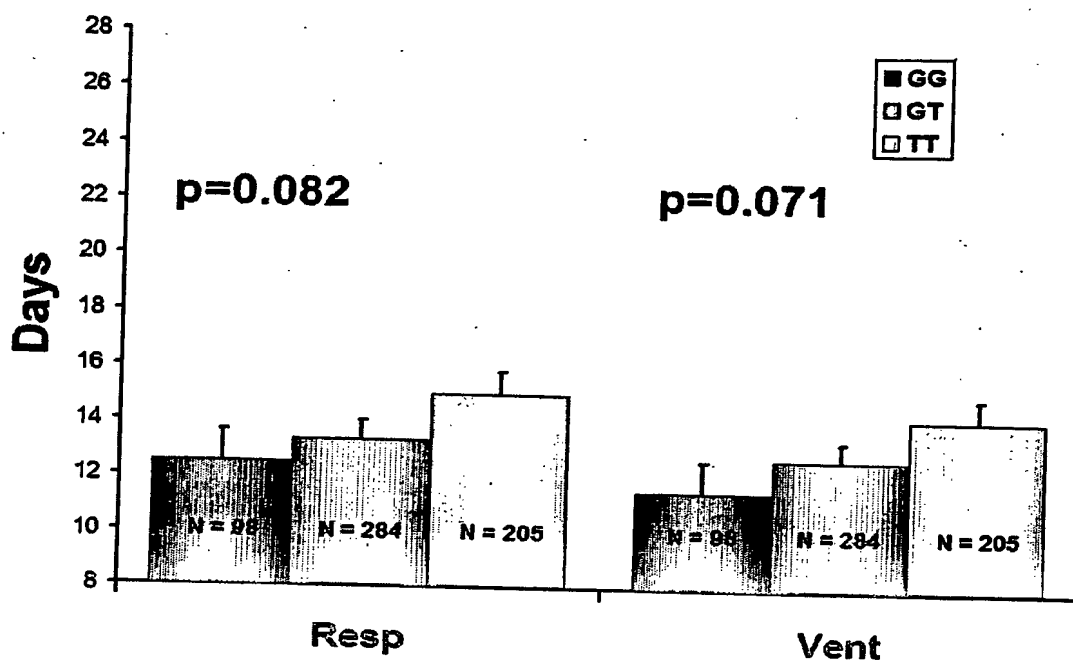
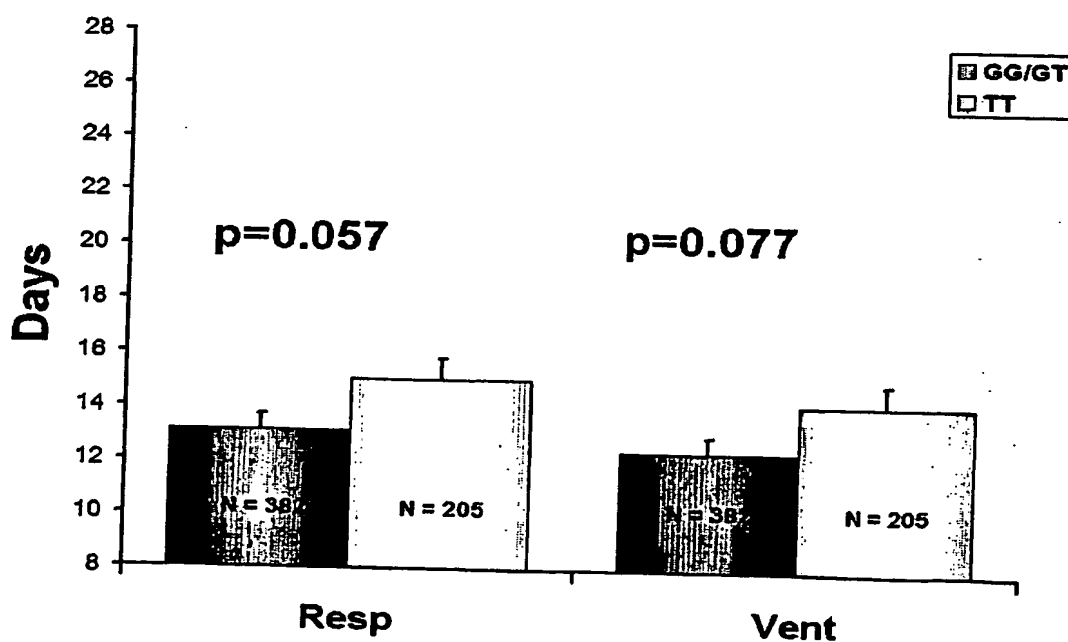


FIGURE 7B



8/18

FIGURE 8A

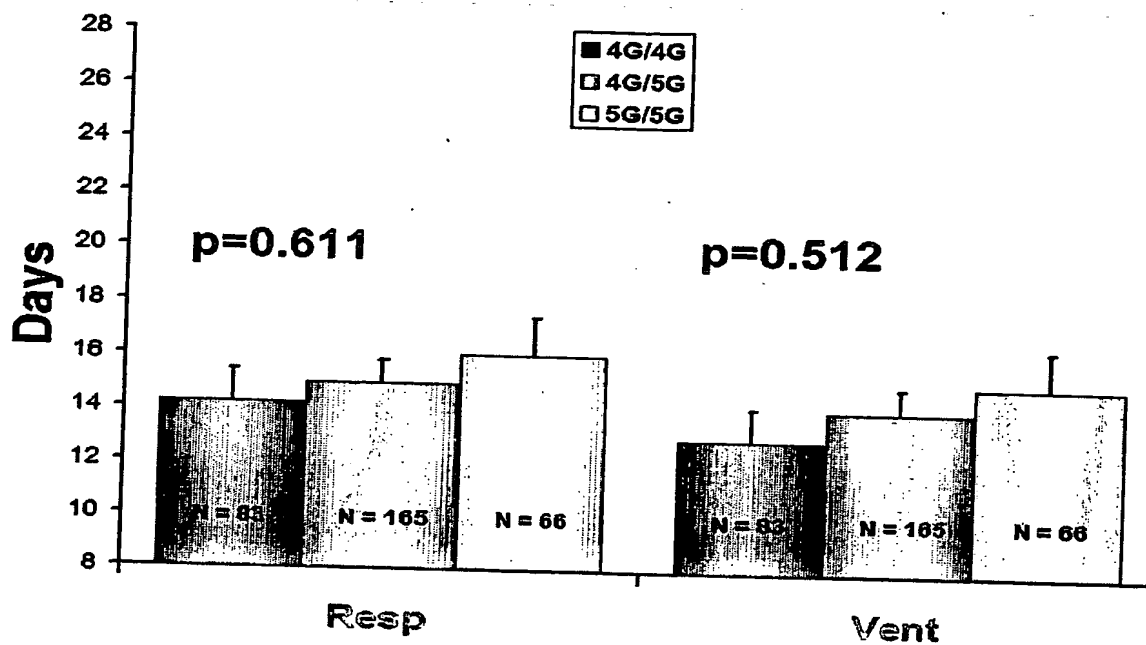
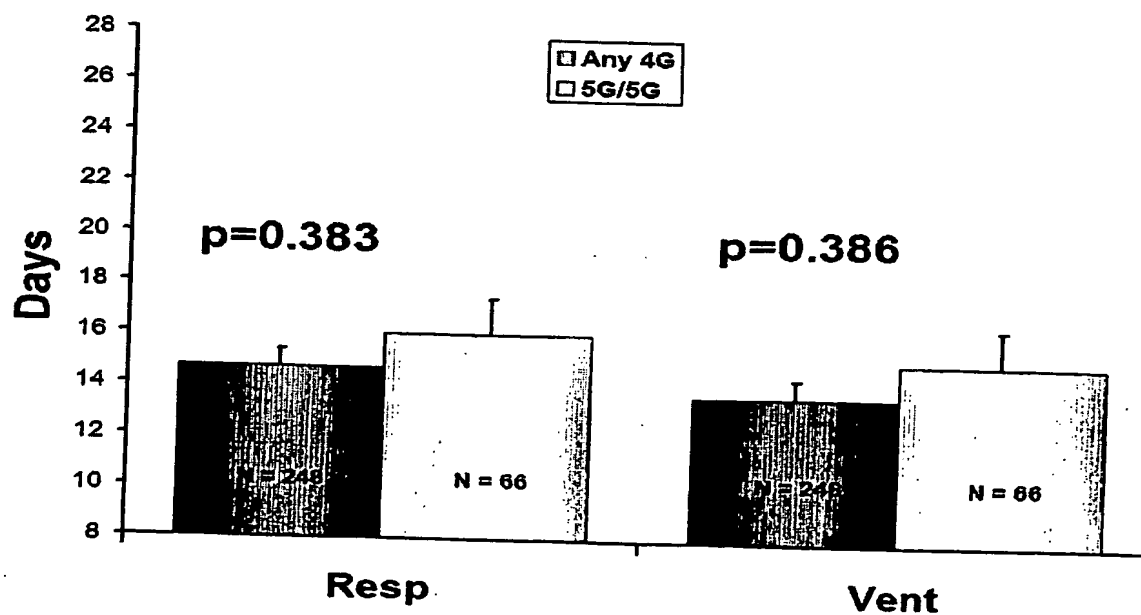


FIGURE 8B





10/549804

9/18

FIGURE 9A

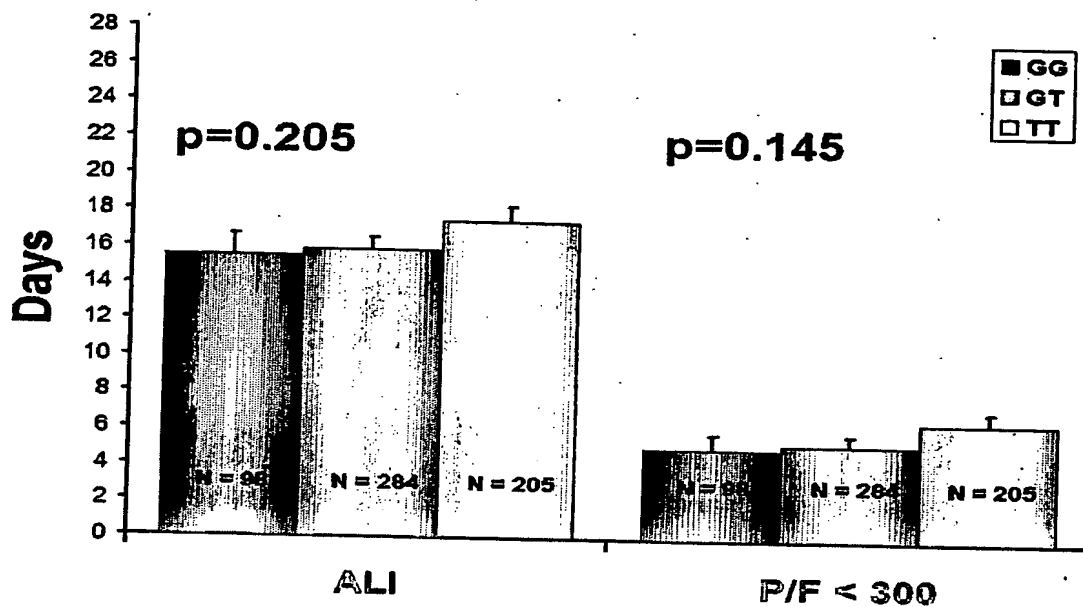
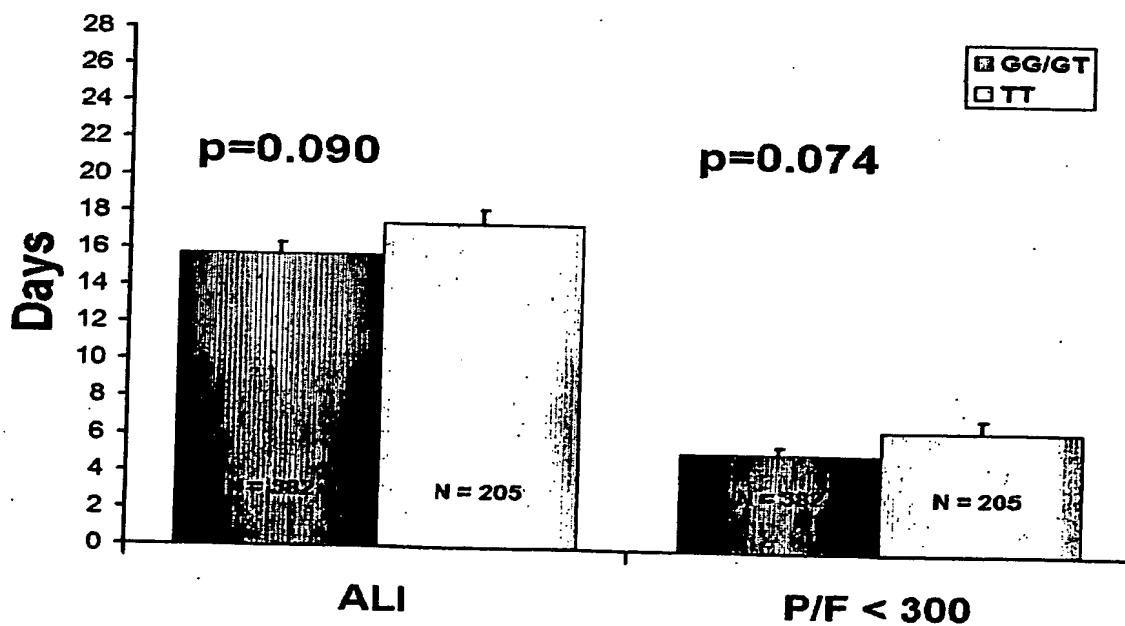


FIGURE 9B



10/549804

10/18

FIGURE 10A

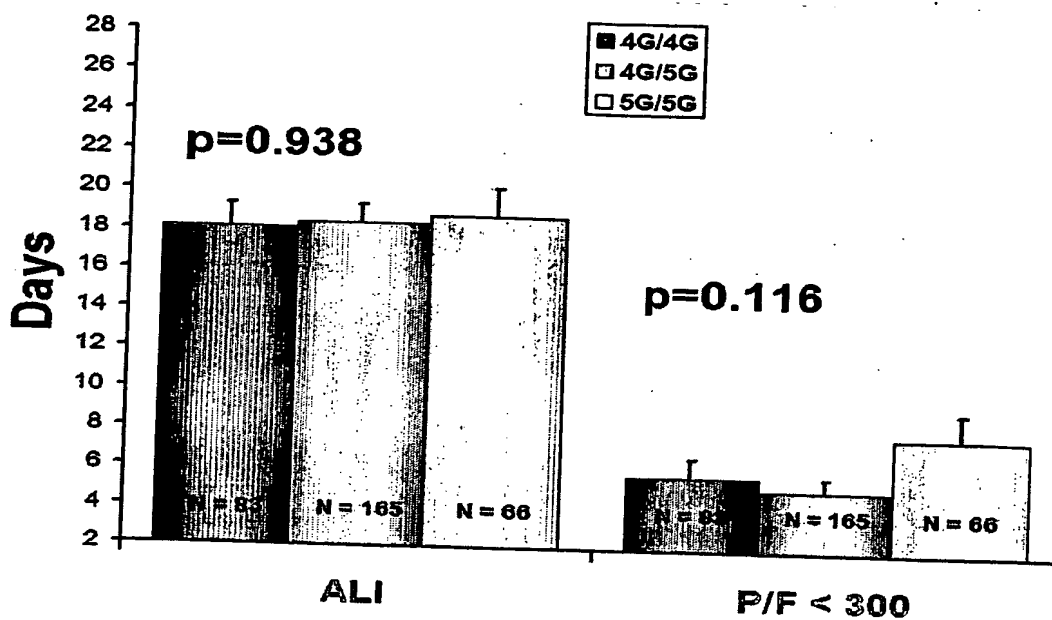
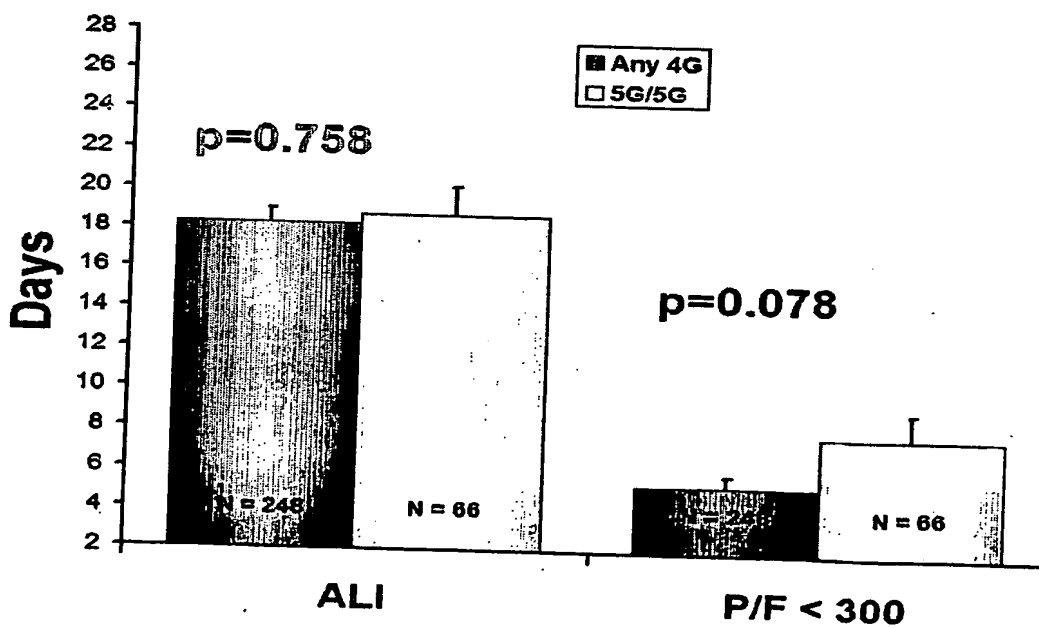


FIGURE 10B



11/18

FIGURE 11A

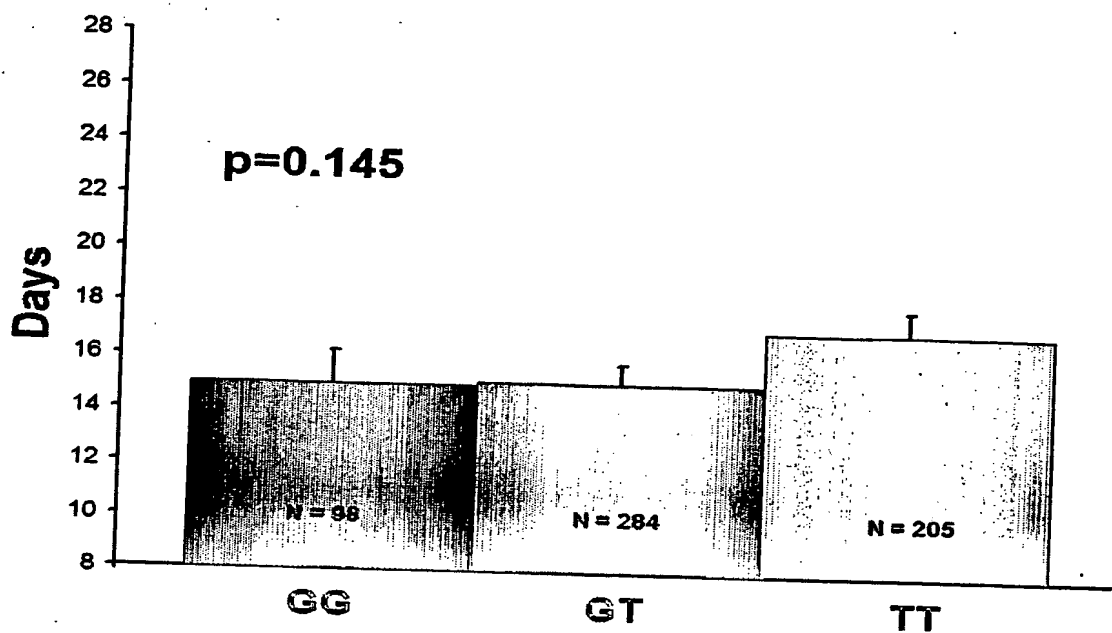
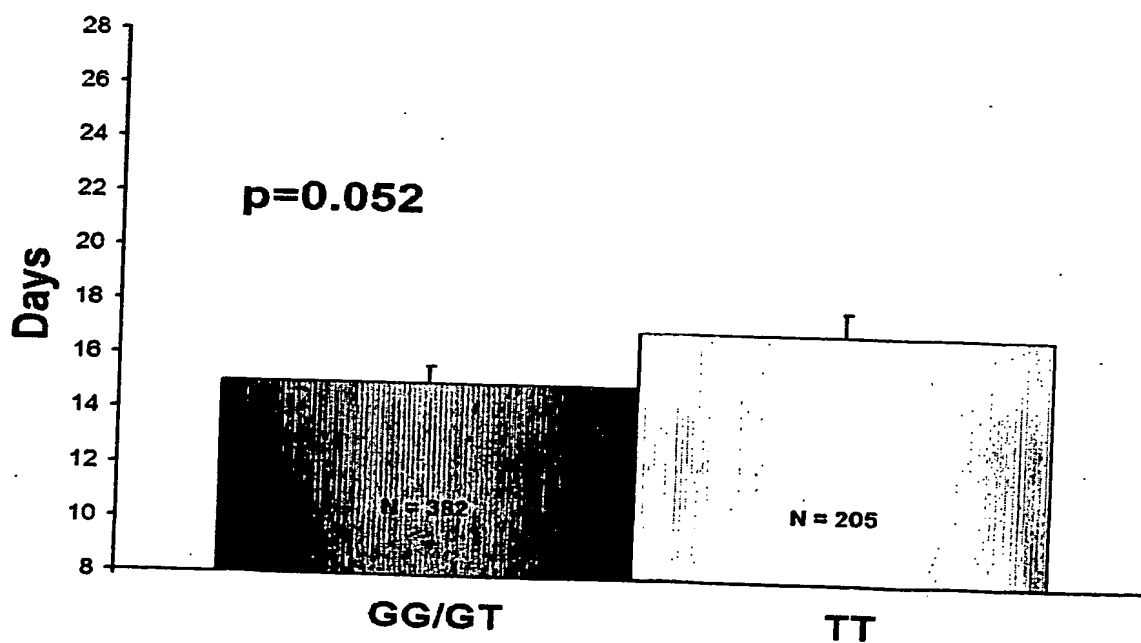


FIGURE 11B



12/18

10/549804

FIGURE 12A

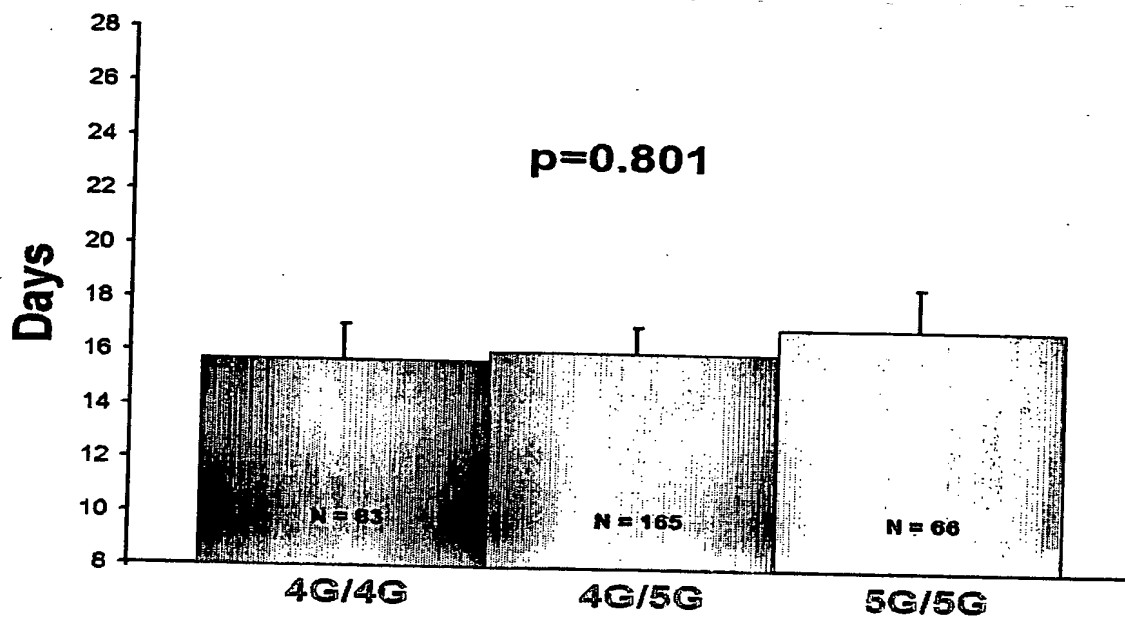


FIGURE 12B

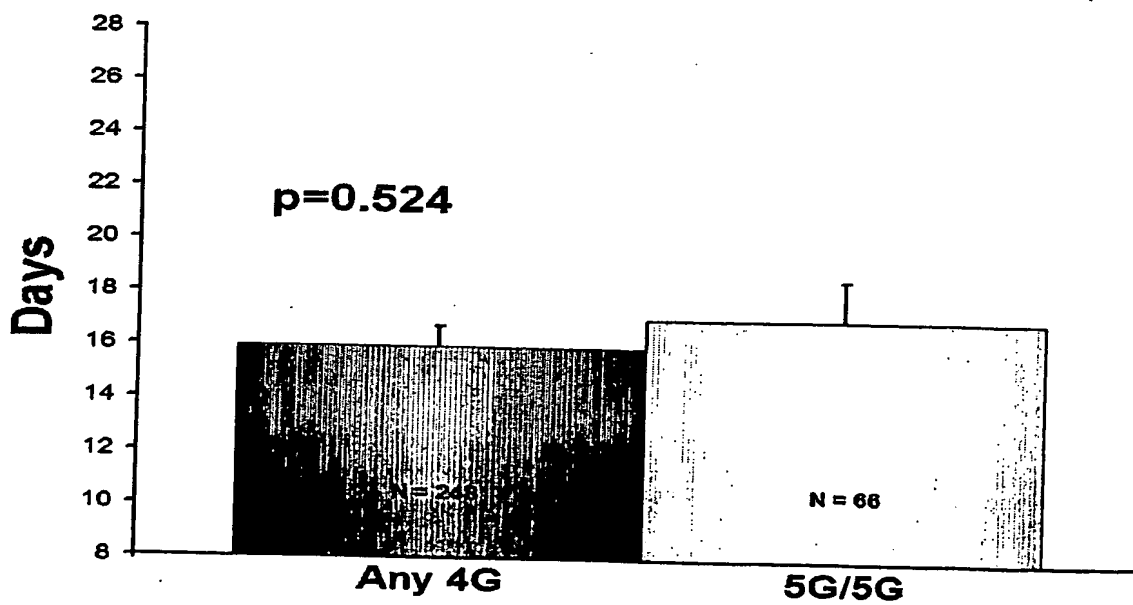


FIGURE 13A

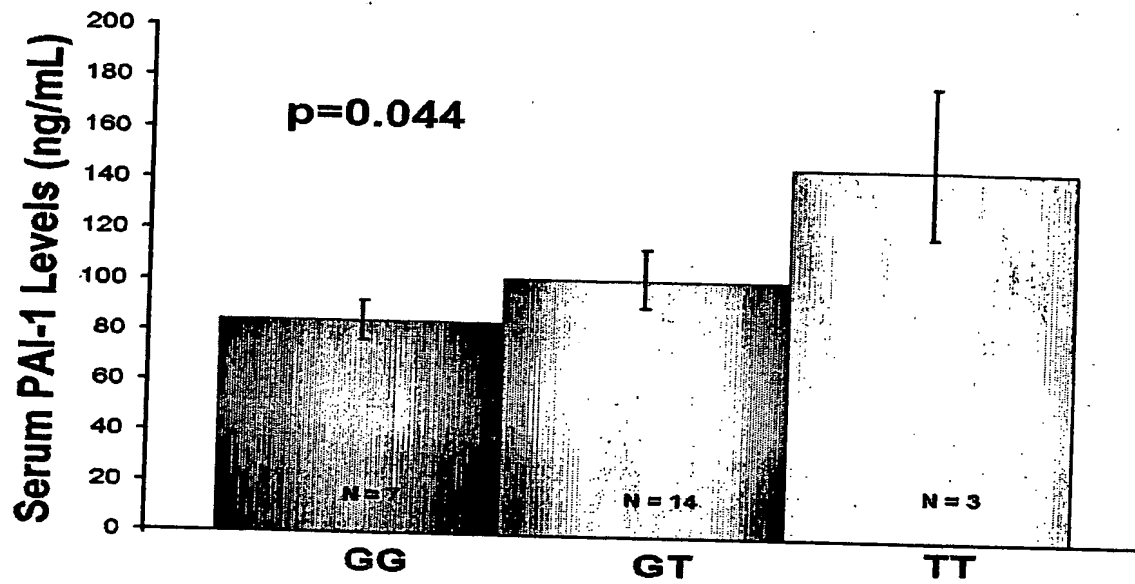
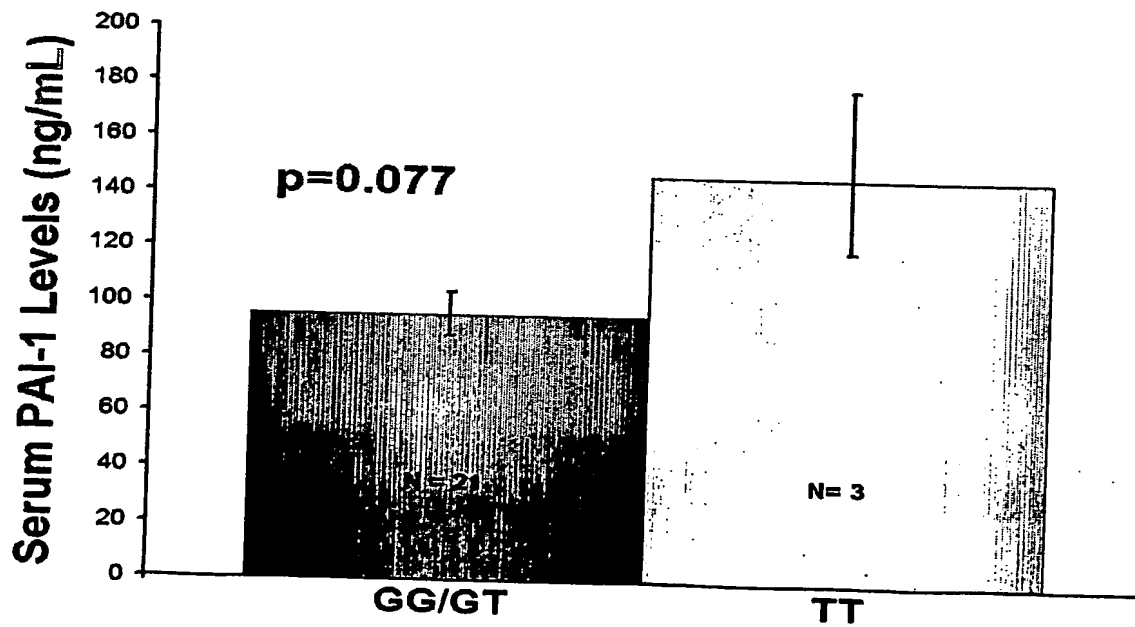


FIGURE 13B



14/18

FIGURE 14A

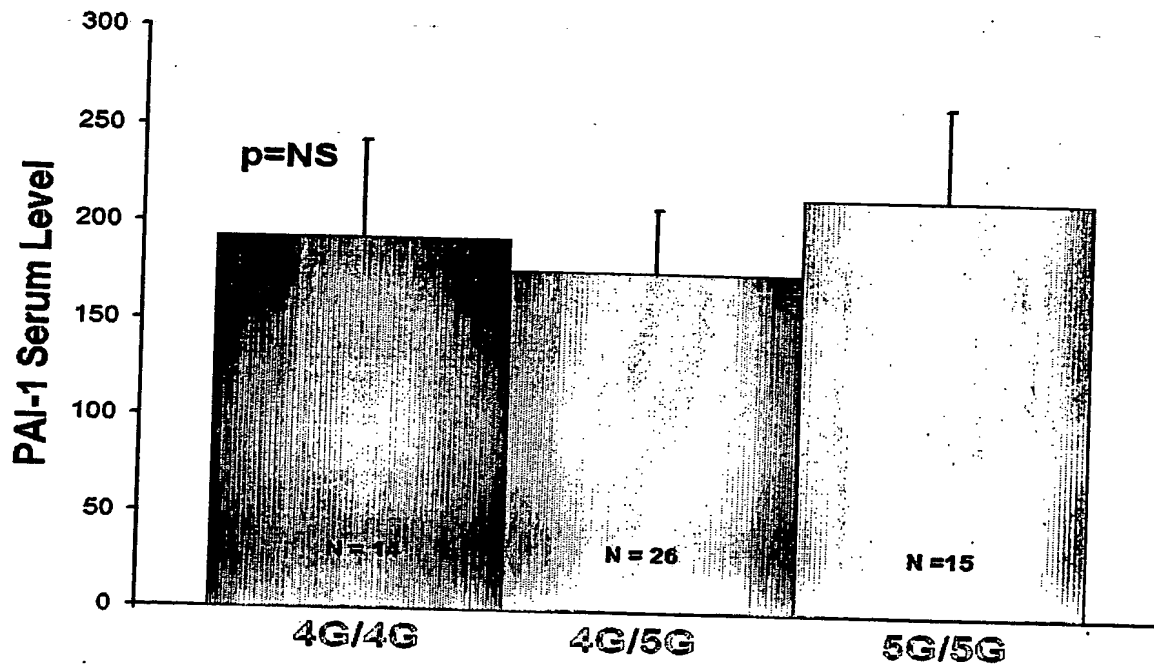
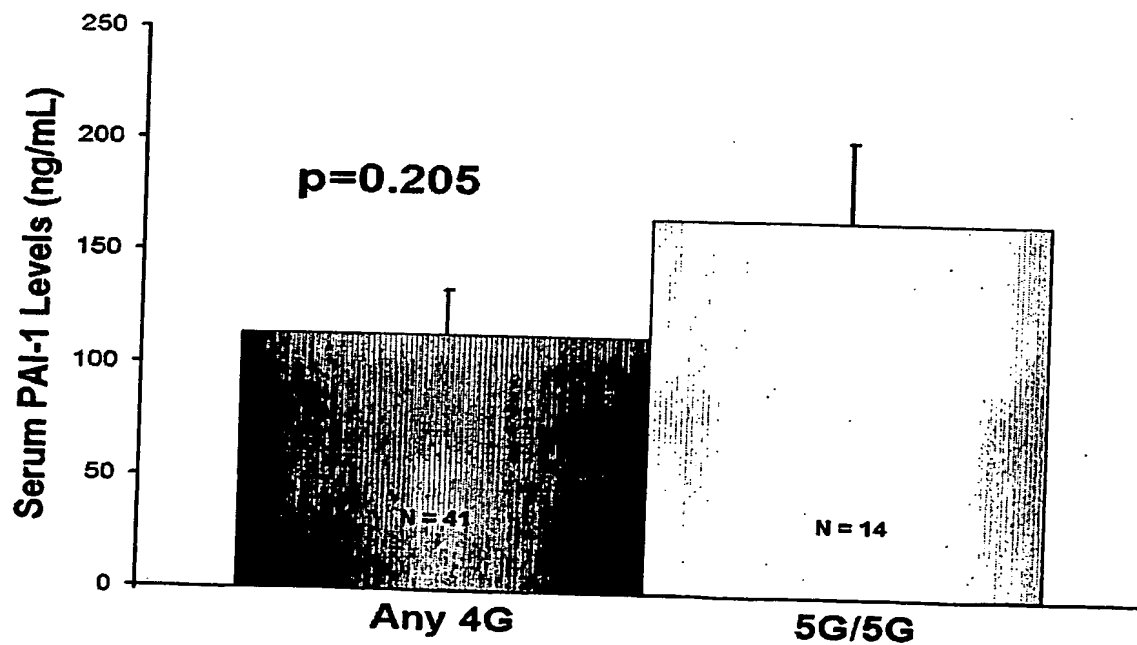


FIGURE 14B



15/18

FIGURE 15A

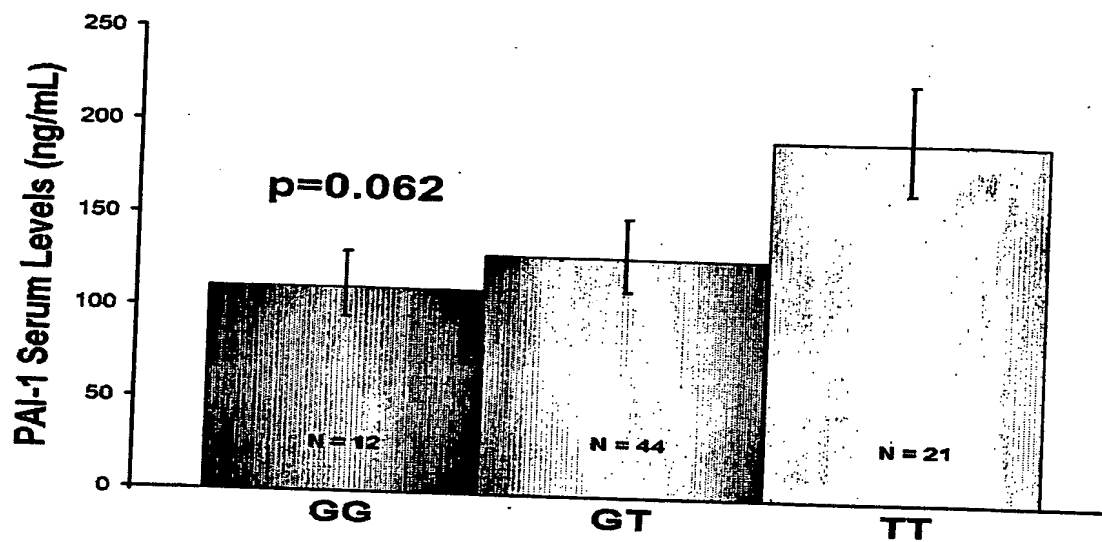
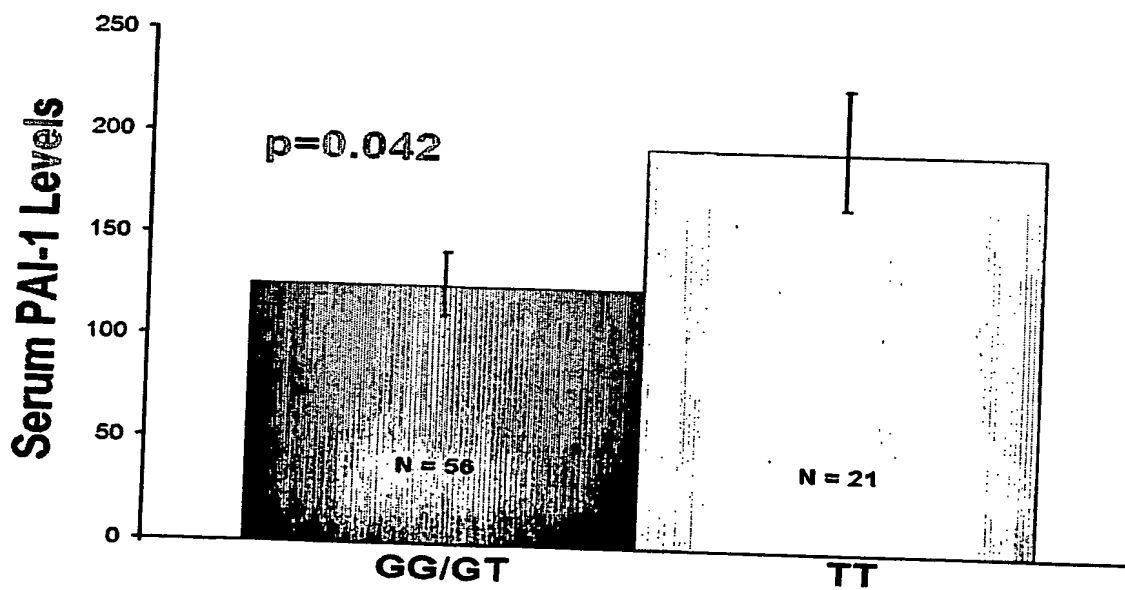


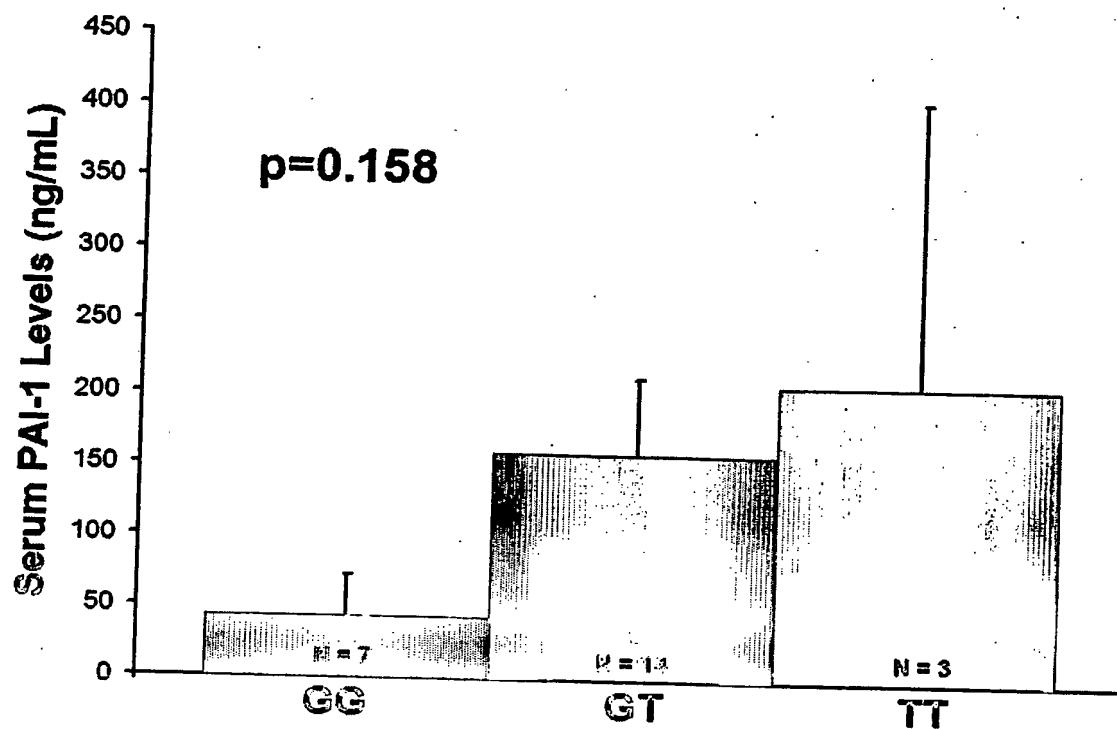
FIGURE 15B



10/549804

16/18

FIGURE 16





17/18

FIGURE 17A

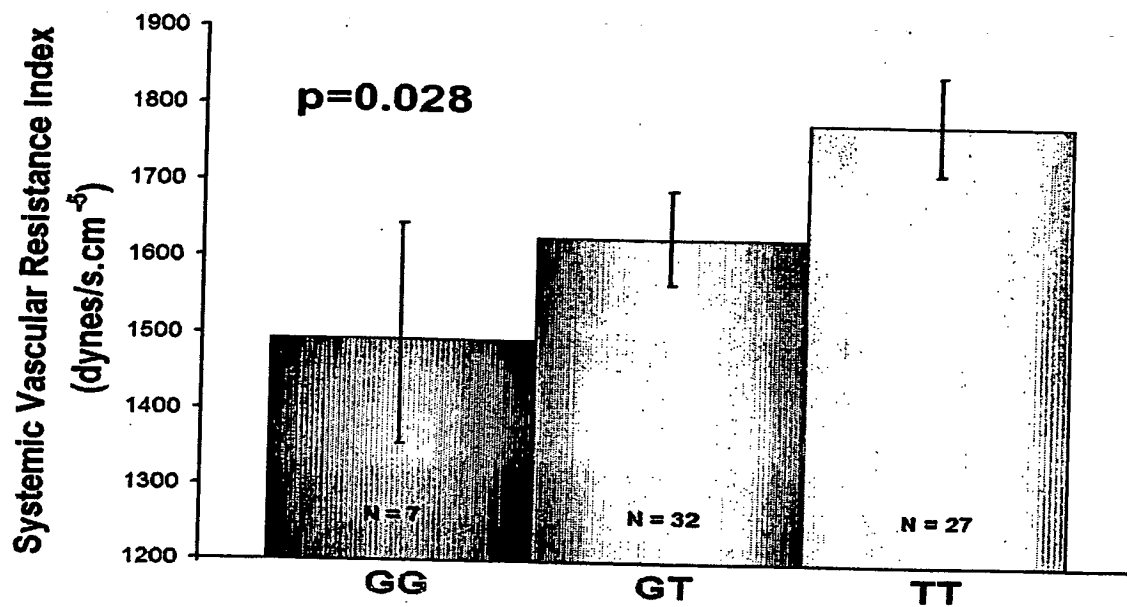


FIGURE 17B

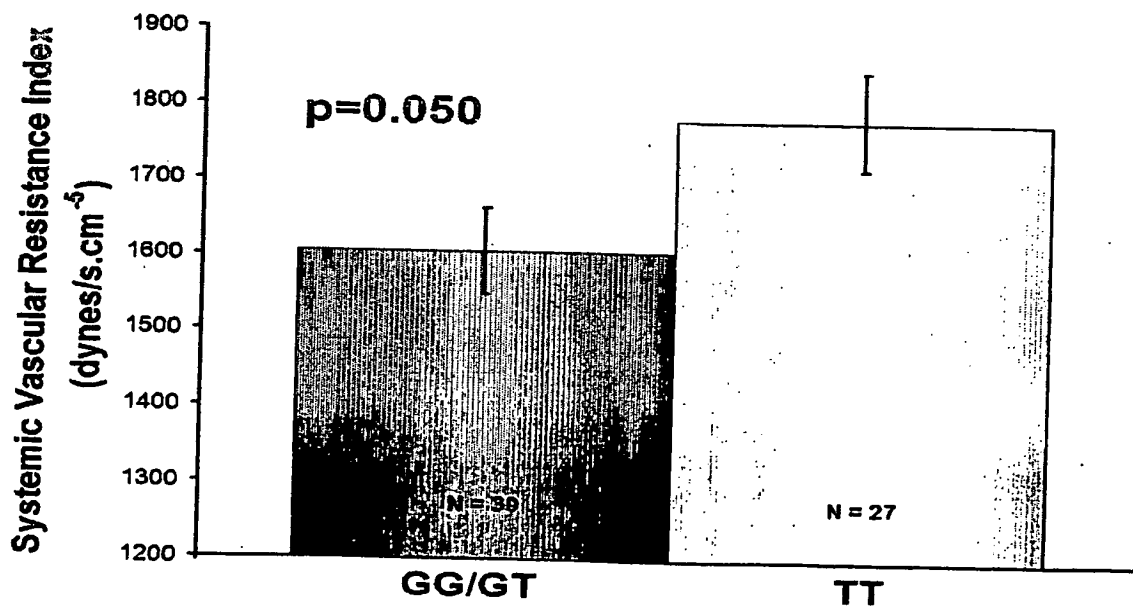


FIGURE 18A

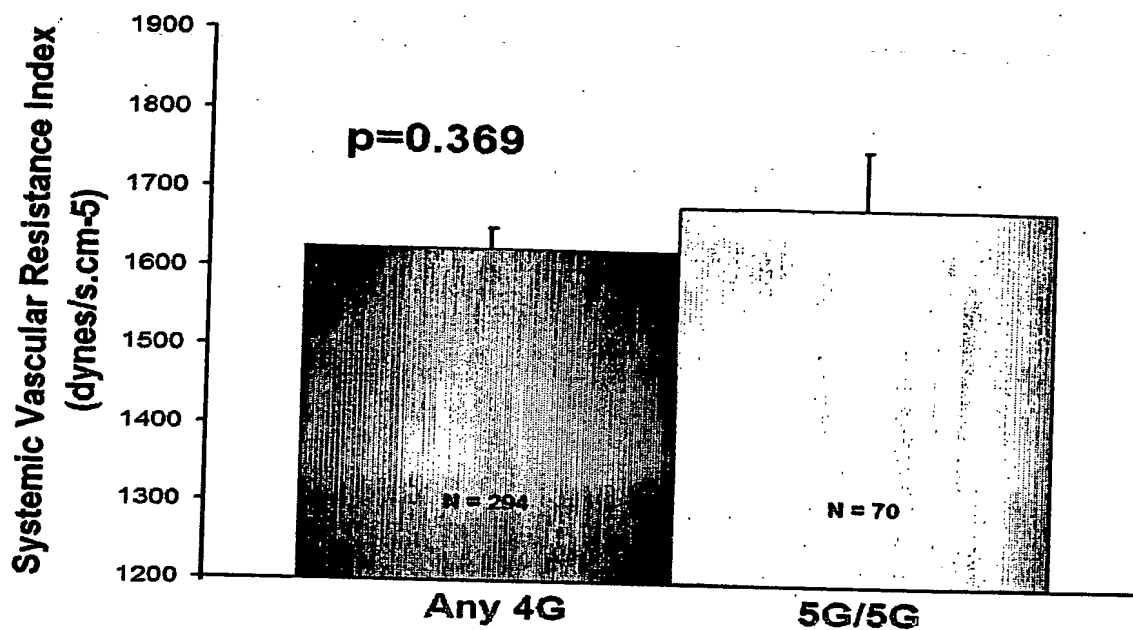
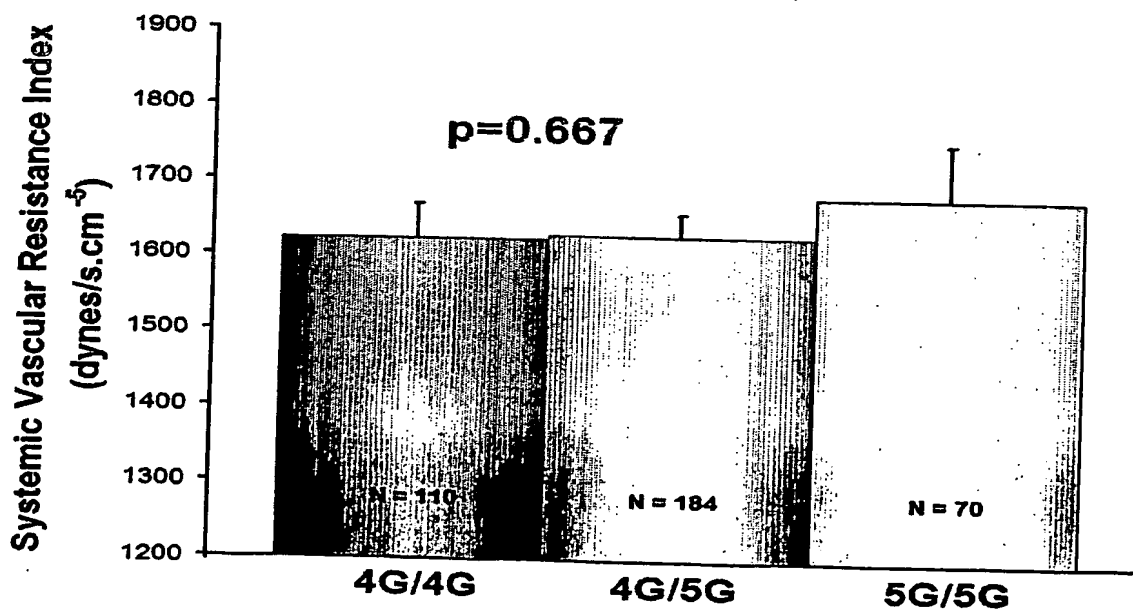


FIGURE 18B



**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

### **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☒ FADED TEXT OR DRAWING
- ☒ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**